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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/784,750
Filing Date	February 23, 2004
First Named Inventor	Frank DiMeo, Jr.
Group Art Unit	2856
Examiner Name	TBA
Attorney Docket Number	ATMI-546-CIP II

Total Number of Pages in This Submission

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
<b>Remarks</b>		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Margaret Chappuis, Reg. No. 45,735
Signature	<i>Margaret Chappuis</i>
Date	August 31, 2004

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited pursuant to 37 C.F.R. 1.8 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date: 9-2-04	
Type or printed name	Lee Ann DiLello
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ATMI-546-CIP-II  
Customer ID No.: 25559

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Frank DiMeo, Jr.

Group Art Unit: 2856

U.S. Application No.: 10/784,750

Examiner: TBA

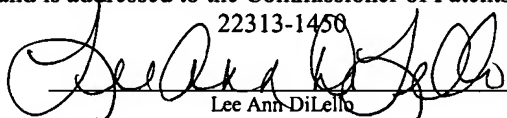
Filed: February 23, 2004

Title: APPARATUS AND PROCESS FOR SENSING FLUORO SPECIES IN  
SEMICONDUCTOR PROCESSING SYSTEMS

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required in accordance with 37 CFR § 1.56 and § 1.97(b). Please note that Reference AH "Inorganic Solid Fluorides, Chemistry and Physics" is a book and is not enclosed. Should a copy of this reference be required, Applicants will provide a copy.

- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
- ☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was the first citation of such item by a foreign patent office in a counterpart foreign application, which occurred no more than three months prior to filing the Information Disclosure Statement. 37 C.F.R. §1.97(e)(1).
- ☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).
- ☐ c. Attached is our check no. \_\_\_\_ in the amount of \$180 in payment of the fee under 37 C.F.R. §1.17(p). Please credit or debit Deposit Account No. 50-0860 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- ☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Applicant(s) hereby petition(s) that the Information Disclosure Statement be considered. Attached is our check no. \_\_\_\_ in the amount of \$130.00 in payment of the petition fee under 37 C.F.R. §1.17(i)(1). Please credit or debit Deposit Account No. \_\_\_\_ as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- ☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was the first citation of such item by a foreign patent office in a counterpart foreign application which occurred no more than three months prior to filing the Information Disclosure Statement. 37 C.F.R. §1.97(e)(1).
- ☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).
- ☐ 4. (other):

Applicant does not believe that any additional fee is due in connection with the foregoing.  
However, any deficiencies may be charged to the deposit account 50-0860.

Respectfully submitted,



Margaret Chappuis  
Registration No. 45,735  
Agent for Applicant

Date: 8/31/2004  
Advanced Technology Materials, Inc.  
7 Commerce Drive  
Danbury, CT 06810  
Agent Ref: ATMI-546-CIP-II

FORM PFD-1449 SEP 07 2004 INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)	US Dept. of Commerce Patent and Trademark Office	ATTORNEY DOCKET NO. ATMI-546-CIP-II	SERIAL NO. 10/784,750
	APPLICANT Frank DiMeo, Jr.		
	FILING DATE February 23, 2004	GROUP 2856	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	10/273,036		Frank DiMeo, et al.			10/17/2002
	AB	6,265,222	6/24/2001	Frank DiMeo, Jr., et al.			
	AC	5,679,576 A	10/21/1997	Kawai, et al.			
	AD	5,612,489 A	3/18/1997	Ragsdale, et al.			
	AE	6,428,713 B1	8/6/2002	Christenson, et al.			
	AF	4,723,438 A	2/9/1988	Adler-Golden, et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLAS S	TRANSLATION YES	NO
							X (abstract only)	

## OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)

AG	Anderson, B., et al., Semiconductor International, October 1993
AH	Ed P. Hagenmuller, Inorganic Solid Fluorides, Chemistry and Physics, Academic Press, 1985. (See Information Disclosure Statement Box 1)
AI	W. Moritz, et al., Sensors and Actuators B 24-25 (1995) 194-196, "Monitoring of HF and F2 using a field-effect sensor"
AJ	Dr. Shigeru Kurosawa, et al., Fluorine in Coatings II, Paper 33, pgs. 1-8, "Plasma Polymerisation of Fluorine Contained Polycyclic Compounds: Its Application in Chemical Sensors"
AK	Werner Moritz, et al., The 11th European Conference on Solid State Transducers, Warsaw, Poland, pgs. 111-114, September 21-24, 1997, "Gas Sensors for Fluorine Using Different Semiconductor Substrates"
AL	Semiconductor International, "Residual Gas Analysis", Oct. 1997, pgs. 94-100.
AM	W. Moritz, et al., "Silicon-Based Sensor for Fluorine Gas", American Chemical Society, pgs. 119-129.

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EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	